

Essential DevOps Commands Cheat Sheet

Git (Version Control)

- git init - Initialize new repo
- git clone <url> - Clone repo
- git status - Show current changes
- git add . - Stage all changes
- git commit -m "msg" - Commit changes
- git push origin main - Push to remote
- git pull origin main - Pull from remote
- git checkout -b <branch> - Create/switch branch
- git merge <branch> - Merge branch
- git stash - Save uncommitted changes

Docker (Containerization)

- docker build -t <tag> . - Build image
- docker images - List images
- docker ps - List running containers
- docker ps -a - List all containers
- docker run -d -p 8080:80 <image> - Run with ports
- docker exec -it <container> bash - Enter container
- docker stop <container> - Stop container
- docker rm <container> - Remove container
- docker rmi <image> - Remove image

Docker Compose

- docker-compose up - Start services
- docker-compose down - Stop & remove services
- docker-compose build - Build services
- docker-compose logs - View logs

Kubernetes (K8s)

- kubectl get pods - List pods
- kubectl apply -f file.yaml - Deploy from file
- kubectl describe pod <name> - Pod details

- kubectl logs <pod> - View logs
- kubectl exec -it <pod> -- bash - Enter pod terminal
- kubectl delete -f file.yaml - Delete resources

AWS CLI

- aws configure - Setup credentials
- aws s3 ls - List buckets
- aws ec2 describe-instances - EC2 list
- aws s3 cp file.txt s3://bucket/ - Upload to S3
- aws s3 sync . s3://bucket/ - Sync to S3

Systemctl (Service Manager)

- sudo systemctl start <service> - Start service
- sudo systemctl stop <service> - Stop service
- sudo systemctl restart <service> - Restart service
- sudo systemctl status <service> - Status check
- sudo systemctl enable <service> - Enable on boot

Terraform (IaC)

- terraform init - Initialize config
- terraform plan - Preview changes
- terraform apply - Apply changes
- terraform destroy - Tear down infra
- terraform validate - Validate config
- terraform fmt - Format config

Monitoring Tools

- htop - Interactive process viewer
- netstat -tuln / ss -tuln - Open ports
- journalctl -xe - Logs from services
- dmesg - Kernel logs